



# **2018 Annual Solid Waste Report for CY2017**

---

*Commonwealth of Virginia*



**June 2018**

## Table of Contents

EXECUTIVE SUMMARY .....	i
I. Introduction.....	1
II. Reporting Procedures.....	1
III. Receipt of Assessment Reports.....	2
IV. Discussion of Reported Waste Management Activities and Capacity Information .....	2
V. Reports of Economic Benefits .....	3
VI. Waste Diversion and Recycling .....	3

### **Tables:**

Table 1 – Solid Waste Managed in Virginia for All Reporting Facilities in Tons – 2017 .....	4
Table 2 – Jurisdiction of Origin of Waste Received in Tons – 2017 .....	5
Table 3 – Solid Waste Managed by MSW (Sanitary) Landfills in Tons – 2017 .....	6
Table 4 – Capacity and Remaining Life for MSW (Sanitary) Landfills – 2017.....	7
Table 5 – Solid Waste Managed by CDD Landfills in Tons – 2017 .....	9
Table 6 – Capacity and Remaining Life for CDD Landfills – 2017 .....	10
Table 7 – Solid Waste Managed by Non-Captive Industrial Landfills in Tons – 2017 .....	11
Table 8 – Capacity and Remaining Life for Non-Captive Industrial Landfills – 2017 .....	11
Table 9 – Solid Waste Managed by Waste to Energy Incinerators in Tons – 2017.....	12
Table 10 – List of Reporting Incinerators – 2017 .....	12
Table 11 – Solid Waste Managed by Transfer Stations in Tons – 2017 .....	13
Table 12 – List of Reporting Transfer Stations – 2017 .....	14
Table 13 – Solid Waste Managed by Material Recovery Facilities (MRFs) in Tons – 2017 .....	16
Table 14 – List of Reporting MRFs – 2017.....	17
Table 15 – Summary Table of SW Managed by Facility Type in Tons – 2017 .....	19
Table 16 – List of Reporting Compost Facilities – 2017 .....	20
Table 17 – List of Reporting RMW Facilities – 2017.....	20
Table 18 – Methods of Solid Waste Management (in Tons) – 2017.....	21
Table 19 – Composition of the Solid Waste Stream in Tons – 2017.....	21
Table 20 – Tons Recycled or Diverted from Solid Waste Facilities - 2017 .....	22

### **Figures:**

Figure 1 – Total Solid Waste Received from 2010 through 2017 .....	23
Figure 2 – Municipal Solid Waste Received from 2010 through 2017.....	24

### **Attachments:**

Attachment 1 – SWIA Reporting Table (Form DEQ 50-25) .....	25
------------------------------------------------------------	----

# **Solid Waste Managed in Virginia During Calendar Year 2017**

## **EXECUTIVE SUMMARY**

Section 10.1-1413.1 of the Code of Virginia requires the Department of Environmental Quality (DEQ) to prepare a report by June 30 of each year describing the amount of solid waste disposed of in the Commonwealth during the preceding calendar year. Facilities that have solid waste management permits are required to provide DEQ with information to prepare this report. As of May 4, 2018, 204 permitted facilities provided information on their activities for calendar year 2017 for this report.

Based on the facilities' reports, a total of 21,591,302.02 tons of solid waste was received at Virginia's permitted solid waste management facilities during calendar year 2017. Of this total, 16,484,625.60 tons originated in the Commonwealth and 5,106,676.42 tons originated from other jurisdictions. The total amount of solid waste received decreased by 2.02% or 444,153.03 tons compared to 2016.

Municipal solid waste (MSW) constituted 13,019,050.21 tons of the total amount of solid waste received during calendar year 2017. Of the total MSW received, 9,588,976.62 tons originated in the Commonwealth and 3,430,073.59 tons originated from other jurisdictions.

Five jurisdictions accounted for 98.51% of all waste received from out-of-state sources: Maryland (44.57%); Washington, D.C. (20.72%); New York (18.81%); North Carolina (9.75%); and New Jersey (4.66%).

During calendar year 2017, the total solid waste received from out-of-state decreased by 16.28%. MSW received from out-of-state decreased by 1.19% compared to 2016 amounts. Construction/demolition/debris (CDD) increased by 3.68% and industrial waste decreased by 67.48% compared to 2016 amounts. Total out-of-state solid waste decreased as a result of a 67.48% decrease in out-of-state industrial waste from 1,131,975.22 to 368,094.58 tons. For waste originating in Virginia during the same period, the total solid waste, MSW, and construction/demolition/debris (CDD) received increased by 3.45%, 2.43%, and 11.18% respectively compared to 2016 amounts. Industrial waste decreased by 4.51% compared to 2016.

Of the solid waste managed in Virginia during the year, 75.62% or 13,551,944.22 tons were landfilled on-site, 6.60% or 1,182,296.00 tons were incinerated on-site, and the rest was managed by other means (see Table 18). Of all solid waste received at Virginia facilities during the year, 60.30% was MSW, 22.08% was CDD waste, 5.51% was industrial waste and the remainder was other types of waste (see Table 19).

Permitted solid waste management facilities reported that 11.81% of the waste they managed was diverted from disposal by recycling or mulching; 0.96% of the total waste managed was composted.

Permitted facilities are required to report on their available capacity and the expected life of the facilities based on current disposal rates. This information shows that at current rates, the remaining available landfill capacity is as follows: MSW – 23.1 years; CDD – 12.9 years; and non-captive industrial – 15.0 years. These projections do not account for population increases, changes in waste generation, or the closing of older MSW disposal units pursuant to statute.

At the option of the facility owner, Virginia Code § 10.1-1413.1 provides that the data collected may include an accounting of the facility's economic benefits to the locality where the facility is located. No facilities provided such information for calendar year 2017.

## **I Introduction**

This report has been prepared in accordance with Virginia Code § 10.1-1413.1, which requires DEQ to prepare a report by June 30 of each year describing the amount of solid waste disposed of in the Commonwealth during the preceding calendar year. All permitted facilities (except for captive waste management facilities) that treat, store or dispose of solid waste are required to provide DEQ with information in their possession as is reasonably necessary for DEQ to prepare this report. The requirements for reporting are set forth in the Virginia Administrative Code, 9 VAC 20-81-80.

## **II Reporting Procedures**

For each category of solid waste, permitted solid waste facilities in Virginia were asked to report the amount of waste that they received, amount of waste mined <sup>1</sup>, the method by which the waste was managed, the jurisdiction where the waste originated, if known, and the facility's remaining capacity. A copy of the reporting table, DEQ Form 50-25, for providing information to DEQ is provided as Attachment 1.

The facilities identified amounts of solid waste by each of the following categories:

- municipal solid waste (MSW)
- construction/demolition/debris (CDD)
- industrial waste
- regulated medical waste (RMW)
- vegetative and yard waste (VW/YW)
- incineration ash
- sludge other than land applied in accordance with Virginia Code 62.1-44.19:3
- tires
- white goods (e.g., refrigerators, washing machines)
- friable asbestos
- petroleum-contaminated soil (PCS)
- other waste

The facilities also reported on each of the following methods of waste management:

- recycled onsite
- composted onsite
- landfilled onsite
- incinerated onsite
- sent offsite to be recycled
- sent offsite to be treated, stored or disposed
- stored onsite at the beginning of the reporting period
- stored onsite at the end of the reporting period
- mulched
- other

---

<sup>1</sup> Landfill mining is the excavation of previously landfilled materials.

Facilities submit this data online or by paper copy to the appropriate DEQ Regional Office. Facilities may log online at the Virginia Solid Waste Information and Assessment (SWIA) webpage to submit data at <http://www.deq.state.va.us/Programs/LandProtectionRevitalization/SolidHazardousWasteRegulatoryPrograms/SolidWaste/SolidWasteInformationandAssessmentProgram.aspx>.

For the facilities that provided information, 4.4% (9 facilities) submitted paper copies and 95.6% (195 facilities) submitted the information on-line.

This report does not include the waste management activities from captive waste management facilities because they are statutorily exempt from the reporting requirements. A captive facility is one that is located on property owned or controlled by the generator of the waste. Most captive waste management facilities in Virginia are industrial landfills or regulated medical waste facilities. As a result, the reported amounts of industrial waste, regulated medical waste and sludge represent only the portion that is managed in off-site facilities. In addition, this report does not reflect tires managed under the Waste Tire Trust Fund at facilities that do not require a permit.

### **III. Receipt of Assessment Reports**

By regulation, facilities must submit their reportable data by March 31 each year. Facilities are required to submit a separate reporting table for each jurisdiction from which they received waste during the prior year. Information from reporting tables received on or before May 4, 2018, has been included in this report. For 2017, 204 permitted facilities reported their activities. These facilities submitted 365 separate reporting tables, representing waste received from 31 states and jurisdictions (including Virginia and Washington, D.C.). One permitted facility required to report did not submit for 2017. Last year, 202 facilities reported their activities for 2016.

### **IV. Discussion of Reported Waste Management Activities and Capacity Information**

Table 1 shows how the total solid waste received was managed by all facility types.<sup>2</sup> Table 2 lists the jurisdiction of origin of waste. Tables 3, 5, and 7 show how Municipal Solid Waste Sanitary Landfills, Construction/Demolition/Debris Landfills, and Industrial Landfills managed solid waste.<sup>3</sup>

Tables 9 – 17 show how other facility types (Incinerators, Transfer Stations, Material Recovery Facilities (MRF), Composters, and Regulated Medical Waste) managed the waste they received and a list of submitting facilities. Table 18 shows how the total waste stream was managed and Table 19 shows the composition of the total waste stream.

Permitted facilities that treat, store or dispose of solid waste are required to report the available capacity, expected life and current disposal rates. The remaining capacity and life, and a list of

---

<sup>2</sup> When referring to information from Table 1, “waste received” refers to information from the first column, and “waste managed” refers to information from the remaining columns on Form DEQ 50-25 except “mined materials” or as noted. The amount of waste “received” for each type of waste may not match the sum of the reported amounts identified for each method of waste management. This reflects information as submitted by facilities in the reporting tables. In particular, incinerators may properly include the ash that they generate as waste that is “sent offsite,” and not include it as waste that is “received” at that facility.

<sup>3</sup> Some columns and rows found in Table 1 do not appear in some of these tables. Rows and columns that do not have reported data were not used by any of the reporting entities; *i.e.* MSW Landfills do not incinerate waste so the column is not included; MSW landfills do not accept regulated medical waste so the row is not included.

submitting facilities are in Tables 4, 6, and 8. <sup>4</sup> Calculations for remaining years of landfill capacity do not account for population changes, changes in waste generation, or the future closings of older MSW disposal units under Virginia Code § 10.1-1413.2. Also, calculations do not include facilities that have not been built and are not accepting waste for which permits may have been issued.

Figure 1 compares the total amount of waste received from 2010 through 2017 at facilities from Virginia and out-of-state jurisdictions. Figure 2 compares municipal solid waste received from 2010 through 2017 from Virginia and out-of-state sources.

## **V. Reports of Economic Benefits**

At the option of the facility owner, Virginia Code § 10.1-1413.1 provides that the data collected may include an accounting of the facility's economic benefits to the locality where the facility is located. This may include the value of disposal and recycling facilities provided to the locality at no cost or reduced cost, direct employment associated with the facility, and other economic benefits resulting from the facility during the preceding calendar year. No facilities provided such information for 2017.

## **VI. Waste Diversion and Recycling**

SWIA data is collected from solid waste permitted facilities. Facilities submit the total tonnage received and how the amounts were managed (landfilled, mined, recycled on-site, recycled off-site, mulched, incinerated, other, composted, or stored). Permitted solid waste management facilities reported that 11.81% (2,116,759.62 tons) of the total waste they managed was diverted from disposal by recycling or mulching. Facilities composted 0.96% (171,970.41 tons) of the total waste managed. Table 20 shows for each SWIA category of waste the total amount of Virginia and out-of-state waste managed, total amount diverted and how the material was managed. In addition, Tables 3, 5, 7, 9, 11, 13, and 15 show how the various facility types managed the waste types.

Most recycling occurs at facilities other than permitted waste management facilities. Local governments provide more complete information on the recycling of waste generated in Virginia. For more detailed information about recycling rates in Virginia see Calendar Year 2016 Virginia Annual Recycling Rate Report:

<http://www.deq.virginia.gov/Programs/LandProtectionRevitalization/RecyclingandLitterPreventionPrograms.aspx>. The annual recycling report for calendar year 2017 will be issued later this year.

---

<sup>4</sup> Facilities report available capacity in cubic yards. The available capacity is estimated using the following conversion factors: 1,000 lbs. of MSW = 1 cu. yd.; 1,200 lbs. of CDD waste = 1 cu. yd.; and 1,000 lbs. of industrial waste = 1 cu. yd. The available capacity for individual facilities may vary, depending on factors such as a facility's compaction rate and use of daily cover materials.

**Table 1 – Solid Waste Managed in Virginia for All Reporting Facilities in Tons – 2017**

Waste Type	Total Waste Received <sup>5</sup>	Mined Materials	Onsite Management of Waste						Sent Offsite To Be:		Stored Onsite	
			Landfilled Onsite	Recycled Onsite <sup>6</sup>	Composted Onsite	Incinerated	Mulched	Other <sup>7</sup>	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Municipal Solid Waste	13,019,050.21	25,487.43	8,672,915.05	894.92	224.54	1,165,350.67	0	0	148,117.85	3,070,135.86	21,925.27	8,824.02
Construction/Demolition/Debris	4,767,306.07	90,557.00	2,919,111.24	437,871.65	0	0	43,315.72	51569.21	221,255.48	922,182.21	234,750.27	497,307.84
Industrial Waste	1,189,888.29	0	848,007.60	233,407.69	26,437.00	16,945.33	0	879.49	1,538.88	62,672.30	0	0
Incineration Ash	728,628.03	0	400,194.23	228,599.89	0	0	0	95989.55	6,725.46	296,512.20	0	0
Other Waste	582,528.48	0	31,877.76	82,480.19	10,131.22	0	76.95	59260.1	318,881.03	82,152.87	4,982.37	12,350.70
Petroleum Contaminated Soil	486,178.01	0	403,986.37	16,868.06	0	0	0	33381	27,565.00	3,178.00	7,400.42	8,600.00
Vegetative/Yard Waste	432,370.19	0	41,850.76	12,494.57	117,042.75	0	200,510.73	14980.817	22,515.61	18,231.79	99,696.58	104,439.75
Sludge	247,356.50	0	227,785.95	0	18,134.90	0	0	0	0	1,435.65	0	0
Tires	100,075.06	0	766.11	27,195.70	0	0	0	2410.04	61,825.51	6,903.48	1,377.83	2,352.05
White Goods	24,789.05	0	36.51	586.27	0	0	0	0	24,032.47	37.64	462.50	558.66
Regulated Medical Waste	7,458.12	0	0	0	0	0	0	4425.318	0	3,032.80	0	0
Friable Asbestos	5,674.01	0	5,412.64	0	0	0	0	0	0	252.79	3.54	12.12
<b>Total for 2017</b>	<b>21,591,302.02</b>	<b>116,044.43</b>	<b>13,551,944.22</b>	<b>1,040,398.93</b>	<b>171,970.41</b>	<b>1,182,296.00</b>	<b>243,903.40</b>	<b>262,895.53</b>	<b>832,457.29</b>	<b>4,466,727.59</b>	<b>370,598.78</b>	<b>634,445.14</b>
Total for 2016	22,035,437.05	199,158.14	13,311,000.10	1,205,015.82	151,688.82	2,011,222.83	231,298.19	467,687.42	848,353.76	4,485,887.34	311,185.44	362,442.79

<sup>5</sup> The amount of “Total Waste Received” and “Stored Onsite at the Beginning of the Year” may not precisely match the sum of the reported amounts for the remaining columns (i.e., each method of managing the waste). This difference reflects information submitted in the reporting tables. In particular, incineration ash generated by an energy recovery facility or incinerator may be listed as “sent offsite to be treated, stored, or disposed” even though it was not received as ash at that facility. The total waste managed may be greater than the waste received due to ash generated at a facility. Vegetative/Yard Waste may be composted to produce a product that is not managed as a waste.

<sup>6</sup> The majority of recycling takes place at facilities that do not require a permit from the Department and were not required to submit data for this report. Therefore, the amounts shown in this column represent a substantial underestimate of the true recycling rate in the Commonwealth. Table 20 provides more information. The annual recycling rate report for calendar year 2017 will be issued later this year.

<sup>7</sup> “Other” methods of management may include steam sterilization of medical waste, approved use of shredded tires, and thermal treatment of petroleum contaminated soils, among others.

**Table 2 – Jurisdiction of Origin of Waste Received in Tons – 2017**

State or Territory	CDD	Friable Asbestos	Incineration Ash	Industrial	MSW	Other	PCS	RMW	Sludge	Tires	VW/YW	White Goods	Total Received
AL - Alabama	0	0	-	158.00	0	0	0	0	0	0	0	0	158.00
CA - California	0	0	0	0.31	0	0	0	0	0	0	0	0	0.31
CN - Canada	0	0	0	0	25.40	0	0	0	0	0	0	0	25.40
CT - Connecticut	0	0	0	572.17	2,606.47	39.60	0	0	0	0	0	0	3,218.24
DC - District of Columbia	159,931.37	282.62	0	3,994.05	750,561.33	6,677.27	135,535.28	0	321.36	89.75	459.00	0	1,057,852.03
DE - Delaware	321.01	4.82	0	1,393.15	19,373.85	63.68	5.03	0	0	0	0	0	21,161.54
FL - Florida	0	0	0	0	0	72.69	0	0	0	0	0	0	72.69
GA - Georgia	0	0	0	136.11	30.63	241.67	0	0	0	0	0	0	408.41
IL - Illinois	0	0	0	0.01	0	0	0	0	0	0	0	0	0.01
IN - Indiana	0	0	0	4.00	0	0	0	0	0	0	0	0	4.00
KY - Kentucky	10.16	0	0	1.91	6.76	0	0	0	0	0	0	0	18.83
MA - Massachusetts	0	0	0	1.90	282.34	0	0	0	0	0	0	0	284.24
MD - Maryland	571,934.36	443.21	110,734.69	95,997.74	1,449,201.24	294.68	25,218.16	306.21	21,763.90	49.11	231.00	0	2,276,174.30
MI - Michigan	0	0	0	0	0	0.82	0	0	0	0	0	0	0.82
MN - Minnesota	0	0	0	1.54	0	0	0	0	0	0	0	0	1.54
MO - Missouri	0	0	0	604.49	0	0	0	0	0	0	0	0	604.49
MS - Mississippi	0	0	0	508.64	0	0	0	0	0	0	0	0	508.64
NC - North Carolina	738.47	32.16	243,586.09	91,102.74	159,127.07	3,003.99	80.17	26.30	0	0	0	0	497,696.99
NH - New Hampshire	0	0	0	20.80	0	0	0	0	0	0	0	0	20.80
NJ - New Jersey	10,051.17	0	0	168,816.38	58,790.38	254.54	113.63	0	0	0	0	0	238,026.10
NV - Nevada	0	0	0	0	0	131.93	0	0	0	0	0	0	131.93
NY - New York	0	0	0	866.62	959,725.46	31.73	2.10	0	0	0	0	0	960,625.91
OH - Ohio	0	0	0	48.65	0	54.88	0	0	0	0	0	0	103.53
PA - Pennsylvania	7,475.93	52.90	0	459.83	2,354.90	1,096.95	16.25	0	0	0	0	0	11,456.76
RI - Rhode Island	0	0	0	0	0	18.66	0	0	0	0	0	0	18.66
SC - South Carolina	0	0	0	864.96	1,964.23	53.68	0	0	0	0	0	0	2,882.87
TN - Tennessee	2,481.44	0	0	2,299.14	25,817.01	133.40	0	397.66	138.81	52.66	695.83	0	32,015.95
TX - Texas	0	0	0	17.34	89.99	23.04	0	0	0	0	0	0	130.37
VT - Vermont	0	0	0	168.70	0	0	0	0	0	0	0	0	168.70
WI - Wisconsin	0	0	0	0	0	0.28	0	0	0	0	0	0	0.28
WV - West Virginia	2,527.08	0	0	55.40	116.53	58.03	62.00	85.04	0	0	0	0	2,904.08
<b>2017 Total Other States</b>	<b>755,470.99</b>	<b>815.71</b>	<b>354,320.78</b>	<b>368,094.58</b>	<b>3,430,073.59</b>	<b>12,251.52</b>	<b>161,032.62</b>	<b>815.21</b>	<b>22,224.07</b>	<b>191.52</b>	<b>1,385.83</b>	<b>0</b>	<b>5,106,676.42</b>
<b>2017 Total Virginia</b>	<b>4,011,835.08</b>	<b>4,858.30</b>	<b>374,307.25</b>	<b>821,793.71</b>	<b>9,588,976.62</b>	<b>570,276.96</b>	<b>325,145.39</b>	<b>6,642.91</b>	<b>225,132.43</b>	<b>99,883.54</b>	<b>430,984.36</b>	<b>24,789.05</b>	<b>16,484,625.60</b>
<b>2017 Total All States</b>	<b>4,767,306.07</b>	<b>5,674.01</b>	<b>728,628.03</b>	<b>1,189,888.29</b>	<b>13,019,050.21</b>	<b>582,528.48</b>	<b>486,178.01</b>	<b>7,458.12</b>	<b>247,356.50</b>	<b>100,075.06</b>	<b>432,370.19</b>	<b>24,789.05</b>	<b>21,591,302.02</b>
2016 Total Other States	728,667.26	1,348.54	179,538.78	1,131,975.22	3,471,259.57	141,002.70	414,068.08	331.07	29,323.47	740.77	1,653.88	0	6,099,909.34
2016 Total Virginia	3,608,289.59	3,175.30	604,748.39	860,568.22	9,361,209.53	480,201.25	204,811.40	6,915.92	243,779.59	109,468.28	429,145.87	23,214.37	15,935,527.71
2016 Total All States	4,336,956.85	4,523.84	784,287.17	1,992,543.44	12,832,469.10	621,203.95	618,879.48	7,246.99	273,103.06	110,209.05	430,799.75	23,214.37	22,035,437.05

**Table 3 – Solid Waste Managed by MSW (Sanitary) Landfills in Tons – 2017**

Waste Type	Total Waste Received	Mined Materials	Onsite Management of Waste					Sent Offsite To Be:		Stored Onsite	
			Landfilled Onsite	Recycled Onsite	Composted Onsite	Mulched	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Municipal Solid Waste	8,762,271.58	25487.43	8,672,915.05	894.92	0.00	0.00	0	18,986.56	94,962.25	0.00	0.23
Construction/Demolition/Debris	887,855.04	0	749,050.80	33,168.42	0.00	0.00	47331.62	0.00	28,304.20	611.50	30,611.50
Industrial Waste	805,572.71	0	568,920.53	233,407.69	0.00	0.00	879.49	0.00	2,365.00	0.00	0.00
Incineration Ash	728,628.03	0	400,194.23	228,599.89	0.00	0.00	95989.55	3,844.36	0.00	0.00	0.00
Sludge	241,681.89	0	223,546.99	0.00	18,134.90	0.00	0	0.00	0.00	0.00	0.00
Other Waste	147,513.21	0	31,877.76	54,178.53	0.00	0.00	52848.04	7,171.51	719.37	51.00	769.00
Vegetative/Yard Waste	144,676.78	0	14,373.96	12,332.92	12,909.25	82,009.40	11560.682	13,977.77	0.00	11,231.04	8,743.85
Petroleum Contaminated Soil	67,436.43	0	50,568.37	16,868.06	0.00	0.00	0	0.00	0.00	0.00	0.00
Tires	15,475.04	0	666.06	588.61	0.00	0.00	2410.04	5,796.48	5,554.73	745.98	1,205.10
White Goods	15,029.74	0	36.51	252.00	0.00	0.00	0	14,726.57	0.00	87.00	101.66
Friable Asbestos	5,140.83	0	5,140.83	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
<b>2017 MSW Total</b>	<b>11,821,281.29</b>	<b>25,487.43</b>	<b>10,717,291.08</b>	<b>580,291.04</b>	<b>31,044.15</b>	<b>82,009.40</b>	<b>211,019.42</b>	<b>64,503.26</b>	<b>131,905.55</b>	<b>12,726.52</b>	<b>41,431.34</b>
2016 MSW Total	11,962,917.43	110,158.14	10,737,875.28	617,167.48	35,933.80	73,683.25	403,589.28	73,511.94	135,638.60	17,878.05	13,528.99

**Table 4 – Capacity and Remaining Life for MSW (Sanitary) Landfills – 2017**

	Facility Name	Permit	Capacity in Tons as of 12/2017	Landfilled in 2017 Tons	Expected Remaining Permitted Life (Years)	Region
1	Accomack County Northern Landfill	SWP461	1,030,199.00	36,577.19	41	TRO
2	Amherst County Landfill Permit Number 563	SWP563	353,092.35	30,351.48	13.96	BRRO
3	Atlantic Waste Disposal Inc	SWP562	46,506,369.50	998,072.13	73.8	PRO
4	Augusta Regional Landfill	SWP585	4,445,960.00	135,351.56	35.6	VRO
5	Battle Creek Landfill	SWP579	2,718,702.50	48,618.87	59.5	VRO
6	Bedford County - Sanitary Landfill	SWP560	124,476.50	52,868.00	3.5	BRRO
7	Bedford Town - Hylton Site	SWP569	6,900.00	39.28	1	BRRO
8	BFI Old Dominion Landfill	SWP553	8,515,132.00	492,823.38	34.5	PRO
9	Blue Ridge Resource Authority	SWP075	2,126,911.10	42,035.65	60	VRO
10	Botetourt County Landfill	SWP582	22,257.50	970.00	7	BRRO
11	Bristol Integrated Solid Waste Management Facility	SWP498	0	0	0	SWRO
12	Bristol Integrated Solid Waste Management Facility	SWP588	2,142,920.00	138,905.05	27	SWRO
13	Brunswick Waste Management Facility LLC	SWP583	10,204,424.50	198,960.66	103	PRO
14	Carroll Grayson Galax Regional Landfill 2	SWP605	1,285,584.00	37,584.39	52.7	SWRO
15	Charles City County Landfill	SWP531	12,950,409.50	649,482.06	38.7	PRO
16	Covington City - Peters Mountain Landfill	SWP594	354,348.78	12,850.87	27.57	BRRO
17	Disposal and Recycling Services of Lunenburg	SWP544	806,500.00	96,816.96	4.5	PRO
18	Fauquier County Solid Waste Management Facility	SWP149	0	0	0	NRO
19	Fauquier County Solid Waste Management Facility	SWP575	323,640.00	7,903.21	36.5	NRO
20	Franklin County - Sanitary Landfill	SWP072	10,000.00	46,678.00	1	BRRO
21	Franklin County - Sanitary Landfill	SWP577	1,743,585.00	2,697.00	32	BRRO
22	Frederick County Landfill	SWP529	6,253,207.00	121,801.08	28	VRO
23	Greensville County Landfill	SWP405	313,810.50	24,338.35	16	PRO
24	Interstate 95 Landfill	SWP103	3,764,071.50	100,564.31	41.8	NRO
25	King and Queen Sanitary Landfill	SWP554	6,679,280.00	709,993.41	22	PRO
26	King George Landfill & Recycling Center	SWP586	17,857,162.50	1,727,161.93	30.9	NRO
27	Loudoun County Sanitary Landfill	SWP001	11,239,283.50	147,078.62	65	NRO
28	Louisa County Sanitary Landfill	SWP194	0	0	0	NRO
29	Louisa County Sanitary Landfill	SWP567	335,788.50	19,645.92	22.2	NRO
30	Maplewood Recycling and Waste Disposal	SWP540	16,415,215.50	393,153.94	149.7	PRO
31	Middle Peninsula Landfill and Recycling Facility	SWP572	13,832,216.00	517,590.53	49.7	PRO

32	New River Resource Authority Solid Waste Facility	SWP548	522,369.50	104,817.00	3.7	BRRO
33	Nottoway County Sanitary Landfill - Blackstone	SWP304	294,944.00	19,253.05	18	PRO
34	Orange County Sanitary Landfill	SWP566	1,692,940.00	22,124.65	34	NRO
35	Pittsylvania Co - Sanitary Landfill	SWP571	215,169.93	40,655.50	18	BRRO
36	Prince Edward County Sanitary Landfill	SWP584	197,588.00	25,075.71	7.5	PRO
37	Prince William County Sanitary Landfill	SWP029	5,716,564.00	488,567.00	13	NRO
	Rappahannock Regional Solid Waste Management Board	SWP589	6,395,440.50	206,693.89	39	NRO
38	Region 2000 Regional Landfill - Livestock Rd Fac	SWP610	1,651,292.00	187,550.05	12.2	BRRO
39	Region 2000 Services Authority - Concord Turnpike	SWP558	0	0	0	BRRO
40	Rockingham County Landfill	SWP062	232,095.50	124,912.11	2.1	VRO
41	Shenandoah County Landfill - Edinburg	SWP469	1,865,281.00	47,161.00	29.4	VRO
42	Shoosmith Sanitary Landfill	SWP587	20,550,000.00	1,192,705.00	31	PRO
43	Smith Gap Regional Landfill	SWP555	4,672,241.50	234,079.03	24.2	BRRO
44	Spotsylvania County Livingston Sanitary Landfill	SWP547	588,067.50	127,890.16	6.0	NRO
45	SPSA - Regional Landfill	SWP417	1,976,000.00	34,078.50	7	TRO
46	SRPSA - Butcher Creek Sanitary Landfill	SWP598	2,620,895.11	69,913.27	29	PRO
47	Tazewell County Landfill	SWP564	360,312.91	40,768.90	8.41	SWRO
48	Tri City Regional Disposal and Recycling Services	SWP228	762,500.00	278,492.76	3.5	PRO
49	USA Waste of Virginia Landfills - Bethel	SWP580	22,803,788.50	617,977.82	91.9	TRO
50	Virginia Beach City - Landfill No 2	SWP398	1,805,100.00	21,826.00	74	TRO
51	Wise County Sanitary Landfill	SWP513	515,880.84	41,835.86	10	SWRO
	<b>MSW Landfill Total for 2017</b>		<b>247,799,918.01</b>	<b>10,717,291.08</b>	<b>23.1</b>	
	<b>MSW Landfill Total for 2016</b>		<b>258,682,077.84</b>	<b>10,737,875.29</b>	<b>24.1</b>	

**Table 5 – Solid Waste Managed by CDD Landfills in Tons – 2017**

Waste Type	Total Waste Received	Mined Materials	Onsite Management of Waste				Sent Offsite To Be:		Stored Onsite	
			Landfilled Onsite	Recycled Onsite	Mulched	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Construction/Demolition/Debris	2,391,397.25	90557	2,136,566.64	199,330.52	13,194.43	4237.59	42,864.58	1,450.10	204,444.54	288,754.93
Petroleum Contaminated Soil	353,418.00	0	353,418.00	0.00	0.00	0	0.00	0.00	0.00	0.00
Vegetative/Yard Waste	41,688.05	0	27,476.80	136.00	14,728.00	0	0.00	0.00	652.75	0.00
Other Waste	32,655.00	0	0.00	28,048.50	0.00	0	0.00	0.00	2,832.00	7,438.50
Tires	143.55	0	100.05	0.00	0.00	0	43.50	0.00	4.00	4.00
Industrial Waste	47.00	0	47.00	0.00	0.00	0	0.00	0.00	0.00	0.00
<b>2017 CDD Total</b>	<b>2,819,348.85</b>	<b>90,557.00</b>	<b>2,517,608.49</b>	<b>227,515.02</b>	<b>27,922.43</b>	<b>4,237.59</b>	<b>42,908.08</b>	<b>1,450.10</b>	<b>207,933.29</b>	<b>296,197.43</b>
2016 CDD Total	2,656,020.95	89,000.00	2,254,287.66	347,191.91	32,769.00	6,099.79	43,759.73	1,203.49	148,223.92	207,933.29

**Table 6 – Capacity and Remaining Life for CDD Landfills – 2017**

	<b>Facility Name</b>	<b>Permit</b>	<b>Capacity in Tons as of 12/2017</b>	<b>Landfilled in 2017 Tons</b>	<b>Expected Remaining Permitted Life (Years)</b>	<b>Region</b>
1	623 Landfill	SWP506	11,104,395.00	540,039.26	20	PRO
2	Ashcake Road Landfill, Inc.	SWP574	316,923.60	59,748.60	4	PRO
3	Centerville Turnpike CDD Landfill	SWP603	4,054,428.00	315,674.08	14.8	TRO
4	Country South LLC - CDD Landfill	SWP581	1,421,560.46	4,455.94	245.5	BRRO
5	Frederick County Landfill	SWP591	2,208,212.40	41,017.21	31	VRO
6	Higgerson Buchanan Incorporated	SWP493	1,380,000.00	24,739.00	10	TRO
7	Lorton Construction Landfill	SWP331	480,000.00	1,113,065.00	1	NRO
8	Portsmouth City - Craney Island Landfill	SWP041	1,897,749.00	23,872.50	106	TRO
9	Potomac CDD Landfill	SWP441	671,400.00	161,243.00	11	NRO
10	Rainwater Landfill	SWP327	271,990.20	22,590.60	11	NRO
11	Taylor Road Landfill	SWP270	8,357,002.20	147,466.00	60	PRO
12	The East End Landfill	SWP524	186,679.92	63,697.30	2.75	PRO
13	Thomas Brothers Debris Landfill	SWP445	68,400.00	0	0	BRRO
	<b>CDD Landfill Total for 2017</b>		<b>32,418,740.78</b>	<b>2,517,608.49</b>	<b>12.9</b>	
	CDD Landfill Total for 2016		33,760,721.53	2,254,287.66	15.0	

**Table 7 – Solid Waste Managed by Non-Captive Industrial Landfills in Tons – 2017**

Waste Type	Total Waste Received	Onsite Management of Waste			Sent Offsite To Be:	Stored Onsite	
		Landfilled Onsite	Recycled Onsite	Mulched	Recycled Offsite	Beginning of Year	End of Year
Industrial Waste	279,040.07	279,040.07	0.00	0.00	0.00	0.00	0.00
Construction/Demolition/Debris	37,103.72	33,493.80	1,165.10	0.00	650.43	2,701.80	4,496.19
Vegetative/Yard Waste	4,681.96	0.00	25.65	4,656.31	0.00	0.00	0.00
Sludge	4,238.96	4,238.96	0.00	0.00	0.00	0.00	0.00
Friable Asbestos	271.81	271.81	0.00	0.00	0.00	0.00	0.00
Tires	66.18	0.00	0.00	0.00	64.18	78.00	80.00
<b>2017 Industrial Total</b>	<b>325,402.70</b>	<b>317,044.64</b>	<b>1,190.75</b>	<b>4,656.31</b>	<b>714.61</b>	<b>2,779.80</b>	<b>4,576.19</b>
2016 Industrial Total	327,345.77	318,837.16	1,169.20	5,433.00	735.2	1,608.59	2,779.80

**Table 8 – Capacity and Remaining Life for Non-Captive Industrial Landfills – 2017**

	Facility Name	Permit	Capacity in Tons as of 12/2017	Landfilled in 2017 Tons	Expected Remaining Permitted Life (Years)	Region
1	First Piedmont Corp - Ringgold	SWP065	2,104,926.46	199,109.30	13.79	BRRO
2	International Paper LF No 2 - Isle of Wight	SWP504	1,808,509.50	85,995.00	68	TRO
3	John C Holland Enterprises Inc	SWP280	857,879.24	31,940.38	43	TRO
	<b>Industrial Landfill Total for 2017</b>		<b>4,771,315.20</b>	<b>317,044.68</b>	<b>15.0</b>	
	Industrial Landfill Total for 2016		4,966,354.00	318,837.16	15.6	

**Table 9 – Solid Waste Managed by Waste to Energy Incinerators in Tons – 2017**

Waste Type	Total Waste Received	Onsite Management of Waste		Sent Offsite To Be:		Stored Onsite	
		Incinerated	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Municipal Solid Waste	1,226,117.07	1,165,350.67	0	16,735.00	57,327.40	19,961.00	6,665.00
Industrial Waste	16,945.33	16,945.33	0	0.00	0.00	0.00	0.00
Other Waste	1,082.00	0.00	0	10,781.97	0.00	0.00	0.00
Tires	329.00	0.00	0	329.00	0.00	0.00	0.00
White Goods	215.30	0.00	0	215.30	0.00	0.00	0.00
Incineration Ash	0.00	0.00	0	2,881.10	296,512.20	0.00	0.00
<b>2017 Incinerator Total</b>	<b>1,244,688.70</b>	<b>1,182,296.00</b>	<b>0</b>	<b>30,942.37</b>	<b>353,839.60</b>	<b>19,961.00</b>	<b>6,665.00</b>
2016 Incinerator Total	2,074,926.33	2,011,222.83	23.8	53,389.97	542,075.79	19,525.00	19,961.00

**Table 10 – List of Reporting Incinerators – 2017**

	Permit	Facility Name	Region
1	PBR173	US Central Intelligence Agency - George Bush Cntr	NRO
2	PBR197	US Department of Defense - Pentagon	NRO
3	PBR500	Wheelabrator Portsmouth Inc - Waste to Energy Fac	TRO
4	PBR545	Covanta Fairfax Incorporated	NRO
5	PBR551	Covanta Alexandria Arlington Incorporated	NRO
6	SWP297	Hampton City - NASA Steam Plant	TRO

**Table 11 – Solid Waste Managed by Transfer Stations in Tons – 2017**

Waste Type	Total Waste Received	Onsite Management of Waste				Sent Offsite To Be:		Stored Onsite	
		Recycled Onsite	Composted Onsite	Mulched	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Municipal Solid Waste	2,478,115.69	0.00	10.00	0.00	0	2,088.49	2,475,926.34	68.46	159.32
Construction/Demolition/Debris	138,838.50	0.00	0.00	100.00	0	211.31	138,527.19	0.00	0.00
Vegetative/Yard Waste	73,295.67	0.00	0.00	62,600.64	1420.135	7,244.84	2,401.13	3,124.79	2,753.71
Other Waste	46,418.82	0.00	479.01	76.95	6412.06	29,161.15	9,890.07	521.82	921.40
Industrial Waste	41,228.91	0.00	0.00	0.00	0	0.00	41,228.91	0.00	0.00
White Goods	9,519.01	334.27	0.00	0.00	0	9,065.60	37.64	375.50	457.00
Tires	3,664.63	0.00	0.00	0.00	0	3,247.57	412.81	0.00	4.25
Petroleum Contaminated Soil	3,045.60	0.00	0.00	0.00	0	0.00	3,046.02	0.42	0.00
Sludge	1,435.65	0.00	0.00	0.00	0	0.00	1,435.65	0.00	0.00
Friable Asbestos	261.37	0.00	0.00	0.00	0	0.00	252.79	3.54	12.12
<b>2017 TS Total</b>	<b>2,795,823.84</b>	<b>334.27</b>	<b>489.01</b>	<b>62,777.59</b>	<b>7,832.20</b>	<b>51,018.96</b>	<b>2,673,158.54</b>	<b>4,094.53</b>	<b>4,307.80</b>
2016 TS Total	2,746,215.25	0.00	10	68,344.12	10,081.55	58,341.53	2,609,241.13	4,107.27	4,304.16

**Table 12 – List of Reporting Transfer Stations – 2017**

	<b>Permit</b>	<b>Facility Name</b>	<b>Region</b>
1	PBR001	Russell County Solid Waste Transfer Station	SWRO
2	PBR002	Cedar Bluff Transfer Station	SWRO
3	PBR003	Washington County Solid Waste Transfer Station	SWRO
4	PBR004	Boissevain Transfer Station	SWRO
5	PBR021	James City County Transfer Station	TRO
6	PBR022	York County Transfer Station	TRO
7	PBR031	Bedford County - Transfer Station	BRRO
8	PBR032	Patrick Co - Solid Waste Transfer Station	BRRO
9	PBR033	Warren County - Transfer Station	VRO
10	PBR041	Smyth County Transfer Station	SWRO
11	PBR044	Wythe/Bland Solid Waste Transfer Station	SWRO
12	PBR045	Bath County of - Transfer Station	VRO
13	PBR049	Dickenson County Transfer Station	SWRO
14	PBR050	Floyd County - Transfer Station	BRRO
15	PBR051	Nelson County Landfill	VRO
16	PBR069	Westmoreland County of - Montross Transfer Station	PRO
17	PBR070	Lee County Solid Waste Transfer Station	SWRO
18	PBR090	Accomack County - Southern Landfill	TRO
19	PBR091	Waste Management of Virginia - Manassas	NRO
20	PBR103	Alleghany County - Transfer Station	BRRO
21	PBR106	Buchanan County Transfer Station	SWRO
22	PBR112	Accomack County Northern Landfill	TRO
23	PBR121	Bristol Integrated Solid Waste Management Facility	SWRO
24	PBR132	Ivy Materials Utilization Center	VRO
25	PBR136	LCM Corp - Transfer Station	BRRO
26	PBR140	Laurel Valley Center- Culpeper County	NRO
27	PBR149	Montgomery Regional Solid Waste Authority	BRRO
28	PBR153	Environmental Options Inc	BRRO
29	PBR154	Madison County Landfill and Transfer Station	NRO
30	PBR160	Richmond City of Hopkins Road Transfer Station	PRO
31	PBR189	Hanover County - 301 Solid Waste Facility	PRO
32	PBR190	SPSA - Oceana Transfer Station	TRO
33	PBR191	SPSA - Landstown Transfer	TRO

34	PBR192	SPSA - Franklin Transfer Station	TRO
35	PBR193	SPSA - Isle Of Wight Transfer Station	TRO
36	PBR194	SPSA - Chesapeake Transfer	TRO
37	PBR195	SPSA - Norfolk Transfer Station	TRO
38	PBR196	First Piedmont Corp - Ringgold	BRRO
39	PBR501	Salem Transfer Station	BRRO
40	PBR508	Craig County - Transfer Station	BRRO
41	PBR509	Greene County Transfer Station	VRO
42	PBR513	City of Harrisonburg - SW Management Facility	VRO
43	PBR518	SPSA - Regional Landfill	TRO
44	PBR520	First Piedmont Corp - Martinsville TS	BRRO
45	PBR529	Bedford Town - Hylton Site	BRRO
46	PBR539	Halifax County Transfer Station Facility	BRRO
47	PBR540	Northampton County - Transfer Station	TRO
48	PBR548	Scott County Transfer Station	SWRO
49	PBR555	Interstate 66 - Solid Waste Management Facility	NRO
50	PBR591	Henrico County DPU Springfield Rd Waste Management	PRO
51	PBR625	Fauquier County Solid Waste Management Facility	NRO
52	SWP484	SPSA - Boykins Transfer	TRO
53	SWP539	SPSA - Ivor Transfer Station	TRO
54	SWP546	Roanoke Valley Resource Authority Transfer Station	BRRO

**Table 13 – Solid Waste Managed by Material Recovery Facilities (MRFs) in Tons – 2017**

Waste Type	Total Waste Received	Onsite Management of Waste			Sent Offsite To Be:		Stored Onsite	
		Recycled Onsite	Mulched	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Construction/Demolition/Debris	1,236,216.56	204,207.60	30,021.29	0	78,425.16	775,391.72	24,992.43	173,163.22
Municipal Solid Waste	647,363.61	0.00	0.00	0	110,307.80	536,952.16	1,895.81	1,999.47
Other Waste	354,088.44	253.16	0.00	0	280,694.40	71,496.63	1,577.55	3,221.80
Tires	80,396.66	26,607.09	0.00	0	52,344.78	935.94	549.85	1,058.70
Petroleum Contaminated Soil	62,277.98	0.00	0.00	33381	27,565.00	131.98	7,400.00	8,600.00
Industrial Waste	20,617.27	0.00	0.00	0	1,538.88	19,078.39	0.00	0.00
Vegetative/Yard Waste	4,946.66	0.00	729.98	0	1,293.00	113.94	5.00	2,814.74
White Goods	25.00	0.00	0.00	0	25.00	0.00	0.00	0.00
<b>2017 MRF Total</b>	<b>2,405,932.18</b>	<b>231,067.85</b>	<b>30,751.27</b>	<b>33,381.00</b>	<b>552,194.01</b>	<b>1,404,100.76</b>	<b>36,420.64</b>	<b>190,857.93</b>
<b>2016 MRF Total</b>	<b>2,092,087.81</b>	<b>239,487.23</b>	<b>26,190.57</b>	<b>35,454.00</b>	<b>618,615.39</b>	<b>1,173,759.14</b>	<b>41,551.94</b>	<b>36,752.55</b>

**Table 14 – List of Reporting MRFs – 2017**

	<b>Permit</b>	<b>Facility Name</b>	<b>Region</b>
1	PBR006	Leesburg Transfer Station	NRO
2	PBR039	Virginia Recycling Corporation	PRO
3	PBR046	Purgo Incorporated	PRO
4	PBR052	Aqua Clean Environmental of Virginia	PRO
5	PBR072	SPSA - Regional Landfill	TRO
6	PBR077	Waste Industries LLC	TRO
7	PBR093	Waste Management of Virginia - Sterling	NRO
8	PBR099	BFI Fluvanna Transcyclery	VRO
9	PBR101	Potomac Landfill Incorporated CDD MRF	NRO
10	PBR102	Dulles Materials Recovery Facility	NRO
11	PBR104	Blue Ridge Disposal Incorporated	BRRO
12	PBR105	BFI Waste Services LLC dba Allied Waste Recyclery	BRRO
13	PBR107	BFI Fredericksburg Recyclery	NRO
14	PBR111	Waste Management of Virginia - Merrifield	NRO
15	PBR116	Bristol Integrated Solid Waste Management Facility	SWRO
16	PBR135	US Navy - Norfolk Naval Shipyard	TRO
17	PBR155	Clearfield MMG Inc - Suffolk	TRO
18	PBR180	MXI Environmental Services LLC	SWRO
19	PBR510	Clearfield MMG Inc - Chesapeake	TRO
20	PBR516	County Waste, LLC	PRO
21	PBR521	CFP Limited Liability Corporation	NRO
22	PBR522	United Disposal Incorporated	TRO
23	PBR528	Fauquier County Solid Waste Management Facility	NRO
24	PBR531	Zion Crossroads Recycling Ctr dba van der Linde Re	VRO
25	PBR533	Spivey Disposal LLC	TRO
26	PBR536	Broad Run Recycling	NRO
27	PBR537	J and E Recycling Materials Recovery Facility	NRO
28	PBR544	AMRF Incorporated	NRO
29	PBR546	S. B. Cox Recycling Center MRF	PRO
30	PBR547	Emanuel Tire of Virginia	BRRO
31	PBR549	Green Earth Materials Recovery Facility	VRO
32	PBR556	Green Zone Investments, LLC	PRO
33	PBR558	Recycling and Disposal Solutions of Virginia (RDS)	TRO

34	PBR559	Montgomery Regional Solid Waste Authority	BRRO
35	PBR560	C3 Holdings Limited Liability Company	NRO
36	PBR561	Zion Crossroads Recycling Ctr dba van der Linde Re	VRO
37	PBR563	W and N Material Recovery Facility	NRO
38	PBR565	Resource Management Group LLC	BRRO
39	PBR567	B&H Sales Corp	TRO
40	PBR568	TFC Recycling - Chesapeake	TRO
41	PBR571	County Waste MRF	PRO
42	PBR572	S. B. Cox Yorktown Recycling Center	TRO
43	PBR588	Bay Disposal & Recycling	TRO
44	PBR590	Tri City Regional Disposal and Recycling Services	PRO
45	PBR592	Fiberight Limited Liability Company	PRO
46	PBR594	Recycling and Disposal Solutions of VA - Enon Road	BRRO
47	PBR596	Military Highway Recycling Center MRF	TRO
48	PBR598	Bay Disposal Inc Norfolk MRF	TRO
49	PBR599	623 Landfill	PRO
50	PBR602	Recycling and Disposal Solutions of VA - Korte St	BRRO
51	PBR603	Emanuel Tire of Virginia Incorporated	PRO
52	PBR619	Select Recycling Waste Services Inc	TRO
53	PBR620	Bay Disposal - Smithfield	TRO
54	PBR622	Clearfield MMG Inc - Chesapeake	TRO
55	PBR623	TFC Recycling - Chester Facility	PRO

**Table 15 – Summary Table of Solid Waste Managed by Facility Type in Tons – 2017**

Facility Type	Total Waste Received	Mined Materials	Onsite Management of Waste						Sent Offsite To Be:		Stored Onsite	
			Landfilled Onsite	Recycled Onsite	Composted Onsite	Incinerated	Mulched	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
MSW Landfill Total	11,821,281.29	25,487.43	10,717,291.08	580,291.04	31,044.15	0.00	82,009.40	211,019.42	64,503.26	131,905.55	12,726.52	41,431.34
CDD Landfill Total	2,819,348.85	90,557.00	2,517,608.49	227,515.02	0.00	0.00	27,922.43	4,237.59	42,908.08	1,450.10	207,933.29	296,197.43
Transfer Station Total	2,795,823.84	0.00	0.00	334.27	489.01	0.00	62,777.59	7,832.20	51,018.96	2,673,158.54	4,094.53	4,307.80
Material Recovery Facility Total	2,405,932.18	0.00	0.00	231,067.85	0.00	0.00	30,751.27	33,381.00	552,194.01	1,404,100.76	36,420.64	190,857.93
Waste to Energy Incinerator Total	1,244,688.70	0.00	0.00	0.00	0.00	1,182,296.00	0.00	0.00	30,942.37	353,839.60	19,961.00	6,665.00
Non-Captive Industrial Landfill Total	325,402.70	0.00	317,044.64	1,190.75	0.00	0.00	4,656.31	0.00	714.61	0.00	2,779.80	4,576.19
Compost Facility Total	296,789.65	0.00	0.00	0.00	140,437.25	0.00	35,786.40	2,000.00	99,104.00	15,735.55	86,683.00	90,409.45
RMW Facility Total	7,504.81	0.00	0.00	0.00	0.00	0.00	0.00	4,425.32	0.00	3,079.49	0.00	0.00
<b>2017 All Facilities Total</b>	<b>21,591,302.02</b>	<b>116,044.43</b>	<b>13,551,944.22</b>	<b>1,040,398.93</b>	<b>171,970.41</b>	<b>1,182,296.00</b>	<b>243,903.40</b>	<b>262,895.53</b>	<b>832,457.29</b>	<b>4,466,727.59</b>	<b>370,598.78</b>	<b>634,445.14</b>

**Table 16 – List of Reporting Compost Facilities – 2017**

	<b>Permit</b>	<b>Facility Name</b>	<b>Region</b>
1	PBR009	623 Landfill	PRO
2	PBR010	Danville City of - Yard Waste Composting Facility	BRRO
3	PBR013	VPPSA -Compost Facility	TRO
4	PBR030	Prince William County - Balls Ford Yard Waste	NRO
5	PBR096	Newport News City - Yard Waste Compost Fac No 1	TRO
6	PBR125	Middle Peninsula Landfill and Recycling Facility	PRO
7	PBR141	Loudoun Composting	NRO
8	PBR175	DOC Powhatan Correctional Center	PRO
9	PBR181	Watkins Nurseries Incorporated	PRO
10	PBR512	Hanover County - 301 Solid Waste Facility	PRO
11	PBR525	Bristol Integrated Solid Waste Management Facility	SWRO
12	PBR589	Black Bear Composting	VRO
13	PBR597	Commonwealth Compost and Recycling Services Inc	SWRO
14	PBR616	Commonwealth Recycled Aggregates Inc	NRO
15	SWP601	Royal Oak Farm Solid Waste Composting Facility	BRRO

**Table 17 – List of Reporting RMW Facilities – 2017**

	<b>Permit</b>	<b>Facility Name</b>	<b>Region</b>
1	PBR143	Curtis Bay Medical Waste Services VA LLC - Roanoke	BRRO
2	PBR517	Stericycle Chesterfield RMW Transfer Station	PRO
3	PBR606	Daniels Sharpsmart RMW Transfer Station	PRO
4	PBR614	NEIE RMW Transfer Station	PRO
5	PBR617	Curtis Bay Medical Waste Services Virginia LLC	PRO

**Table 18 – Methods of Solid Waste Management (in Tons) – 2017**

<b>Methods of Solid Waste Management</b>	<b>2017 Tons</b>	<b>Percentage</b>
<b>Landfilled Onsite</b>	13,551,944.22	75.62%
<b>Incinerated Onsite</b>	1,182,296.00	6.60%
<b>Recycled Onsite</b>	1,040,398.93	5.81%
<b>Sent Offsite to be Recycled</b>	832,457.29	4.65%
<b>Stored Onsite End of Year</b>	634,445.14	3.54%
<b>Other</b>	262,895.53	1.47%
<b>Mulched</b>	243,903.40	1.36%
<b>Composted Onsite</b>	171,970.41	0.96%
<b>Total</b>	<b>17,920,310.92</b>	<b>100.00%</b>

**Note:** The basis for determining these percentages is the sum for all methods of waste management (recycled, composted, landfilled, etc.) in Table 1, with the exception of: (1) waste stored onsite at the beginning of the year (which is similar to waste received) and (2) waste that was sent offsite for treatment, storage or disposal (i.e., waste that was simply transferred to another facility for ultimate management). Accounting for those two exceptions, the basis for these percentages is 17,920,310.92 tons. Facilities that mine landfill materials report how much material was mined and how it was managed.

**Table 19 – Composition of the Solid Waste Stream in Tons – 2017**

<b>Waste Type</b>	<b>2017 Tons</b>	<b>Percentage</b>
<b>Municipal Solid Waste</b>	13,019,050.21	60.30%
<b>Construction/Demolition/Debris</b>	4,767,306.07	22.08%
<b>Industrial Waste</b>	1,189,888.29	5.51%
<b>Incineration Ash</b>	728,628.03	3.37%
<b>Other Waste</b>	582,528.48	2.70%
<b>Petroleum Contaminated Soil</b>	486,178.01	2.25%
<b>Vegetative/Yard Waste</b>	432,370.19	2.00%
<b>Sludge</b>	247,356.50	1.15%
<b>Tires</b>	100,075.06	0.46%
<b>White Goods</b>	24,789.05	0.11%
<b>Regulated Medical Waste</b>	7,458.12	0.03%
<b>Friable Asbestos</b>	5,674.01	0.03%
<b>Total</b>	<b>21,591,302.02</b>	<b>100.00%</b>

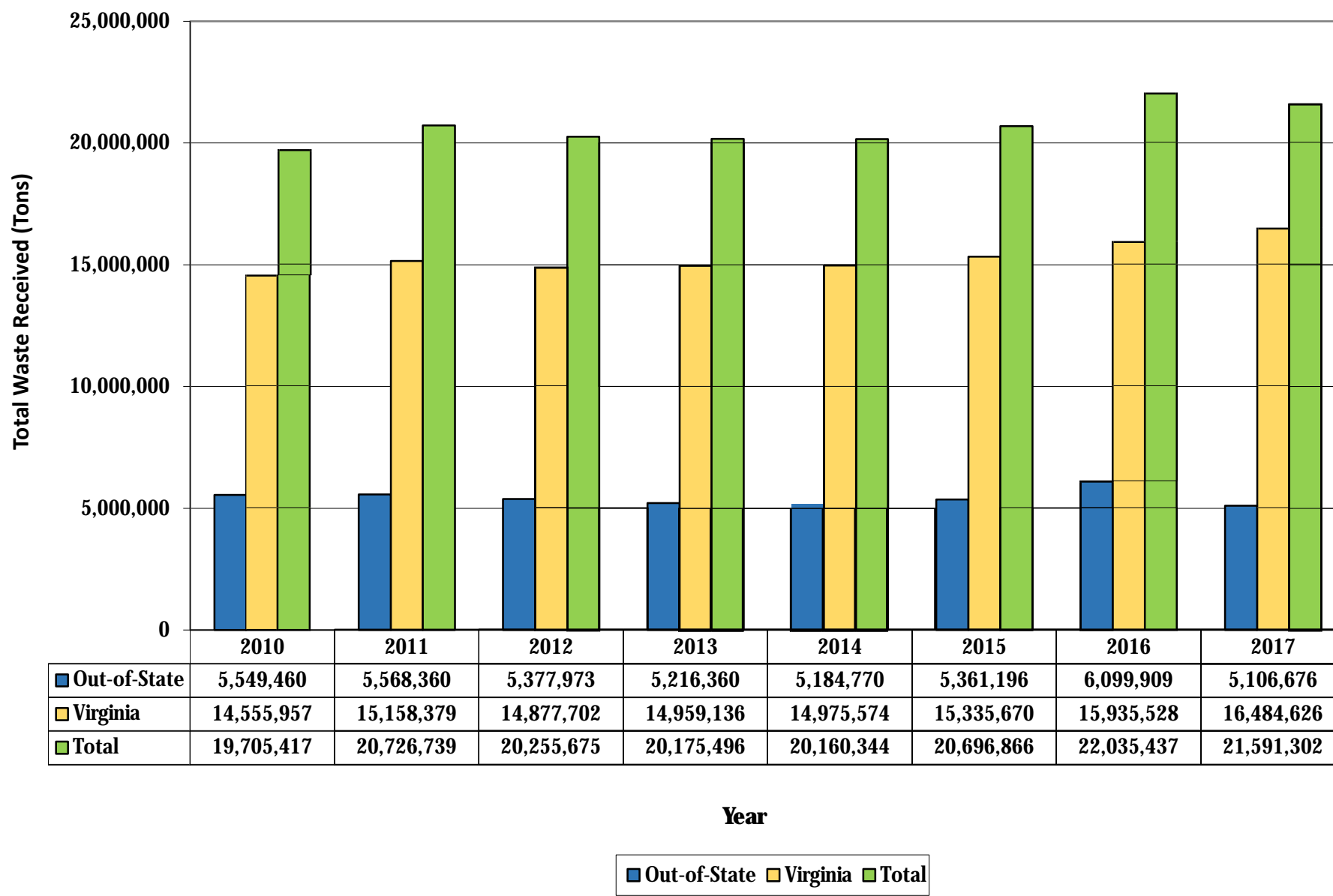
**Table 20 – Tons Recycled or Diverted from Solid Waste Facilities - 2017**

Annual Reporting Period 2017 for Virginia Jurisdictions <sup>8</sup>						
Waste Type	Total Waste Received	Tons Recycled or Diverted	Recycled Onsite	Recycled Offsite	Composted	Mulched
Municipal Solid Waste	9,588,976.62	149,228.31	894.92	148,108.85	224.54	0.00
Construction/Demolition/Debris	4,011,835.08	633,195.06	369,861.44	220,440.90	0.00	42,892.72
Industrial Waste	821,793.71	42,519.38	29,384.50	1,538.88	11,596.00	0.00
Other Waste	570,276.96	407,172.90	82,480.19	314,484.54	10,131.22	76.95
Vegetative/Yard Waste	430,984.36	351,177.83	12,494.57	22,515.61	116,346.92	199,820.73
Incineration Ash	374,307.25	231,293.86	228,412.76	2,881.10	0.00	0.00
Petroleum Contaminated Soil	325,145.39	44,433.06	16,868.06	27,565.00	0.00	0.00
Sludge	225,132.43	18,134.90	0.00	0.00	18,134.90	0.00
Tires	99,883.54	88,965.55	27,195.70	61,769.85	0.00	0.00
White Goods	24,789.05	24,618.74	586.27	24,032.47	0.00	0.00
<b>Total</b>	<b>16,473,124.39</b>	<b>1,990,739.58</b>	<b>768,178.40</b>	<b>823,337.20</b>	<b>156,433.58</b>	<b>242,790.40</b>

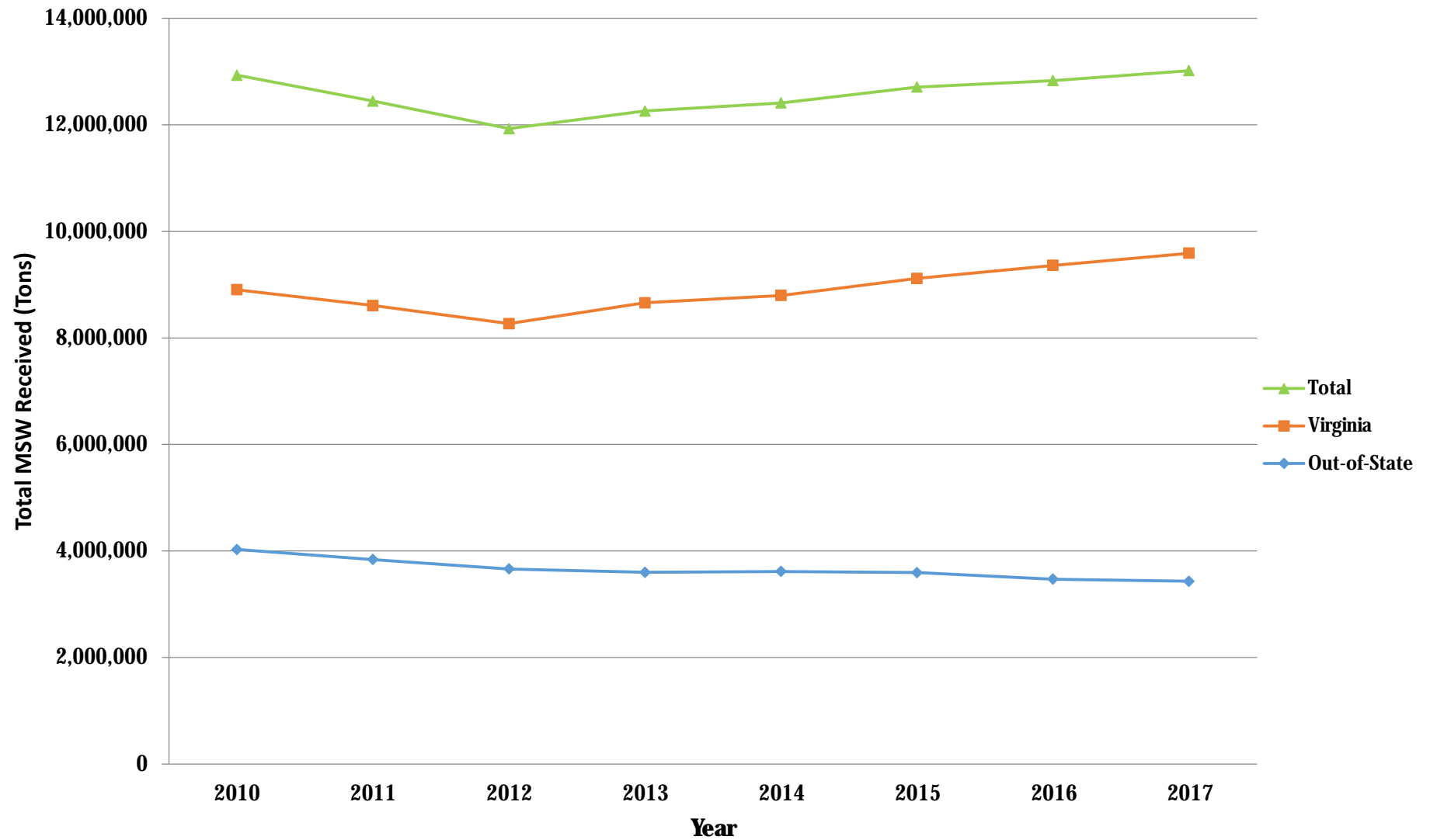
Annual Reporting Period 2017 for Out-of-State Jurisdictions						
Waste Type	Total Waste Received	Tons Recycled or Diverted	Recycled Onsite	Recycled Offsite	Composted	Mulched
Municipal Solid Waste	3,430,073.59	9.00	0.00	9.00	0.00	0.00
Construction/Demolition/Debris	755,470.99	69,247.79	68,010.21	814.58	0.00	423.00
Industrial Waste	368,094.58	218,864.19	204,023.19	0.00	14,841.00	0.00
Incineration Ash	354,320.78	4,031.49	187.13	3,844.36	0.00	0.00
Other Waste	12,251.52	4,396.49	0.00	4,396.49	0.00	0.00
Vegetative/Yard Waste	1,385.83	1,385.83	0.00	0.00	695.83	690.00
Tires	191.52	55.66	0.00	55.66	0.00	0.00
<b>Total</b>	<b>4,921,788.81</b>	<b>297,990.45</b>	<b>272,220.53</b>	<b>9,120.09</b>	<b>15,536.83</b>	<b>1,113.00</b>

<sup>8</sup> Data in Table 20 is summarized from SWIA reports.

**Figure 1 – Total Solid Waste Received from 2010 through 2017**



**Figure 2 – Municipal Solid Waste Received from 2010 through 2017**



## Attachment 1 – SWIA Reporting Table (Form DEQ 50-25)

**SOLID WASTE INFORMATION AND ASSESSMENT PROGRAM REPORTING TABLE - FORM DEQ 50-25**

1	Facility Name				
2	Permit Number	3 Date Submitted to DEQ			4 Annual Reporting Period
5	Preparer's First Name	Middle Initial	Last Name		6 Telephone
7	Preparer's E-mail Address				
8	Has there been a change to the Annual Fee Billing Contact, Address or Telephone Number? <input type="checkbox"/> Yes <input type="checkbox"/> No				
	Contact First Name	Last Name		Contact Phone	
	Address			E-Mail	
	City	State	Zip Code		
9A and 9B Landfills only		9A	Remaining Permitted Capacity Yards		9B Expected Remaining Permitted Life Years
10	Does facility use active scales? <input type="checkbox"/> Yes or <input type="checkbox"/> No		Landfills not using active scales - enter the total amount landfilled in cubic yards (sum of all jurisdictions)		
11	Originating Jurisdiction		11A Statement of Economic Benefits submitted? <input type="checkbox"/> Yes or <input type="checkbox"/> No		
12	Facilities landfilling VA incineration ash		Use the supplemental form to provide the facility from which ash was received and the amount.		

**Waste amounts measured in : ☐ Tons or ☐ Cubic Yards**

Waste Type		Total Amount of Waste Received (a)	Mined Materials (b)	On-site Management of Waste						Sent Off-site to be: (i)		Stored On-site (j)	
				Landfilled (c)	Recycled (d)	Composted (e)	Incinerated (f)	Mulched (g)	Other (h)	Recycled	Treated, Stored, Disposed	Beginning of Reporting Period	End of Reporting Period
13	Municipal Solid Waste												
14	Construction/ Demolition/Debris												
15	Industrial Waste												
16	Regulated Medical Waste												
17	Vegetative/Yard Waste												
18	Incineration Ash												
19	Sludge												
20	Tires												
21	White Goods												
22	Friable Asbestos												
23	Petroleum Contaminated Soil												
24	Other Wastes (specify)												
25	Total												

**Facility Comments**

--

Complete a separate form for each jurisdiction.  
See the instructions for completing Form DEQ 50-25. A separate form is provided for the optional Statement of Economic Benefits.

Revised 11/3/2014

**SUPPLEMENTAL SOLID WASTE INFORMATION AND ASSESSMENT PROGRAM REPORTING TABLE - FORM DEQ 50-25**

**Only those facilities that landfill Virginia incineration ash provide this information.**

Permit Number	Annual Reporting Period
Facilities landfilling VA incineration ash: Received from Permit No., Facility Name	VA ash amount measured in
	<input type="checkbox"/> Tons <input type="checkbox"/> Cubic Yards

**Facility Comments**

<p>Facilities should use the same units of measure (Cubic Yards or Tons) for Rows 12 - 24.  Facilities that do not landfill VA incineration ash do not complete this supplemental form.  See the instructions for completing Form DEQ 50-25.</p>	Revised 11/3/2014
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------